S3 Trio3D/2X

User's Manual

Multimedia

S3 Trio3D/2X

User's Manual

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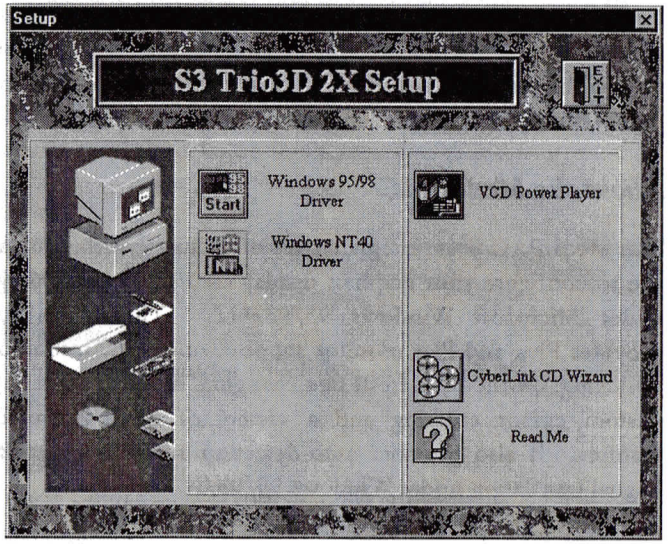
AUTO INSTALLATION

To install, simply put the VGA driver in your CD-ROM drive and click twice at the drive, the auto-installation system will guide you to a successful installation. The MediaPAC utility software will be installed as your option (recommended).

If your system fails to install through the auto-installation procedure, you can still install the S3 Trio3D/2X driver and MediaPAC by running the file D:\MSSETUP.EXE.

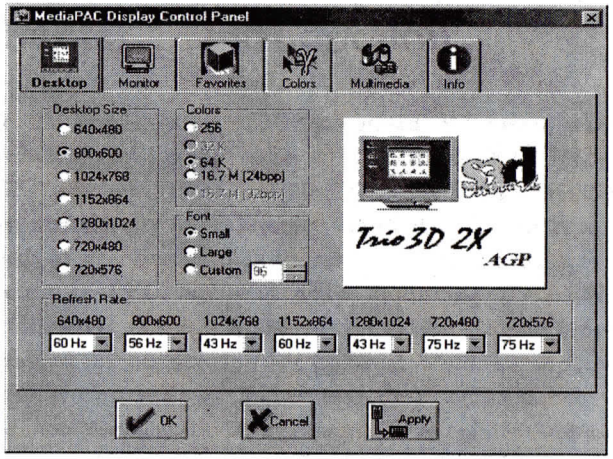


Installation on Windows 95/ 98/NT4.0

To install the MediaPAC and supporting files, run D:\MSSETUP.EXE from the Start menu. The Setup program will automatically detect the Windows version in your computer, then copy MediaPAC tools, Windows driver and supporting files to your hard disk. The setup will create a Program Manager group, and MediaPAC display manager program is added to the 'load' section of the WIN.INI file which Windows automatically loads each time it starts. An 'Uninstaller' icon is placed on the program group for you to un-install this package as required. The MediaPAC Display Control Panel presents the information in a tabbed dialog box. Follow the instructions and make your choices, the installation is easily completed in just a minute.

About the MediaPAC

The MediaPAC is an integrated set of utilities which you can use to configure your graphics display card for optimal usage under Microsoft Windows 95/98/NT. The MediaPAC provides Plug and Play monitor support, on-the-fly resolution switching, on-the-fly refresh rate changing, monitor centering, custom cursor coloring and a variety of other enhanced features. It also provides auto-detection support for multi-lingual translation under Windows 95/98/NT.



Desktop

Change resolution, color depth, refresh rate and font.

Monitor

Detect or select monitor type and monitor centering and refresh rate detection.

Favorites

Define favorite modes which you can switch to one of them easily.

Colors

Cursor Color and Desktop Gamma Adjustment.

MultiMedia

Multi-Media programs for video and audio playback.

Info

View desktop, driver, chipset information.

Chapter 1 Introduction

The S3 Trio3D/2X (LC2X) integrated 3D video/graphics accelerator and support either 2X (133MHz) or 1X (66MHz) AGP pipeline DMA mode for high 3D rendering performance. By bus mastering texture data at over twice the speed of convention PCI buses, AGP DMA reduces the amount of CPU overhead while improving 3D rendering performance. Especially the enhanced S3d Engine provides improved 2D acceleration for excellent Windows application performance and a full-feature high-performance 3D rendering for realistic user experience in games and other interactive 3D applications. The S3 Trio3D/2X supports S3 Streams Processor technology features such as vertical interpolation and color controls for high quality video playback. It allow simultaneous display of graphic and video of different color depths. This save memory bandwith and storage capacity while permitting higher frame rates.

1.1 Feature

Integrated 2D/3D graphics and Video Accelerator

- 64-bit 2D/3D graphics engine
- Memory clock up to 100MHz of SGRAM/SDRAM
- Integrate 230MHz RAMDAC with gamma correction
- 133MHz AGP support
- 66MHz AGP pipeline DMA mode

S3d Graphics Engine

- High performance 2D engine acceleration
- Flat and Gouraud shading for 3D
- High quality 3D texture mapping
- Perspective correction
- Bi-linear and tri-linear texture filtering
- MIP-Mapping, depth cueing, fogging, alpha blending
- Video texture mapping
- Z-buffering

S3 Stremms Processor Technology

- Supports on-the-fly stretching and blending of primary RGB stream and RGB or YUV (video) sceondary stream
- Each stream can have different colors depths
- High-quality video playback with horizotal and vertical interpolation
- Brightness, hue, saturation controls

Full Software Support

- Driver for major operating system and APIS. [Windows 95/98, Window NT (4.0/5.0-ICD)]
- Bundle with software media player of CDWizard

Green PC/Monitor Plug and Play Support

- DPMS monitor power saving modes support
- DDC monitor communications
- High screen resolution support

Chapter 2 Hardware Installation

2.1 What's Included in the Package

The card package includes the following:

- The accelerator card
- Software driver which contain the necessary files
- This manual

2.2 Installing the Card

1. Power off your system and disconnect all peripherals.
2. Remove the computer cover and make sure there is a system expansion slot AGP available.
3. Remove your existing graphics card (If you have the graphic card) and insert the graphic card into the AGP (or PCI) slot.
4. Make sure the card is correctly seated in the slot.
5. Replace and secure the computer cover. Reconnect the peripherals.
6. Plug your monitor cable into the 15-pin video output connector on your card.

If the system successfully powers up and the normal DOS boot-up message appears on the screen, the card is installed properly.

Chapter 3 Software Installation

The card is 100% VGA compatible and as such needs no special display drivers to run application software correctly at standard VGA resolutions and color depths. However, enhanced display drivers are supplied with the card because they provide accelerated performance, higher color depths and higher resolutions for software applications. The card supports resolutions as high as 1600x1200 pixels, and color depths of up to 16 bits per pixel. Higher graphics resolutions and higher color depths provide greater clarity and detail when using the supplied drivers for graphics programs. When configuring your software to work with the board, it may help to bear in mind that the drivers compatible with the card fall into four categories.

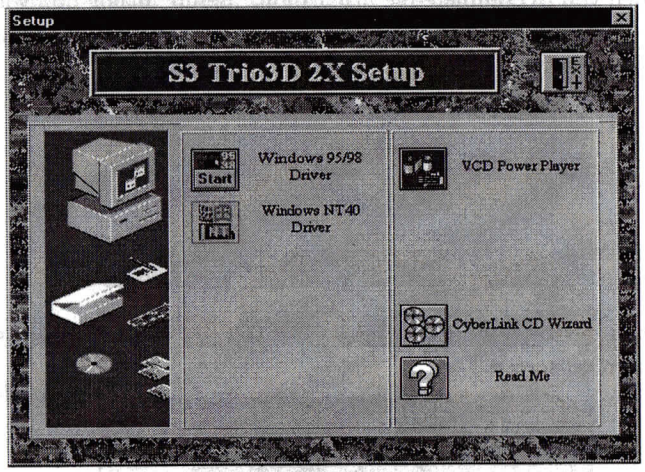
3.1 Installing on Windows 95 / 98

Before installing the driver, make sure your graphic card has already been installed in the motherboard.

Windows 95/98 was found the new hardware and is location the software for it. When Windows 95/98 to finish setting up your new hardware, you must restart your computer.

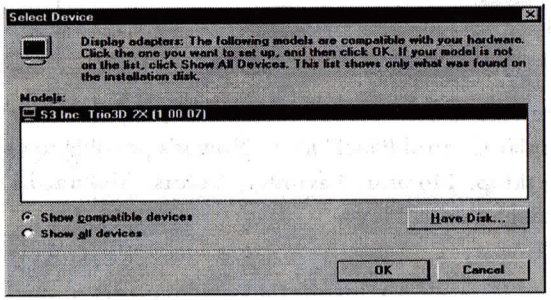
After installing the enhanced display drivers for Microsoft Windows, you can switch among supported display modes in the conventional manner. To install, simply put the VGA driver in your CD-ROM drive and click twice at the drive, the auto-installation system will guide you to a successful installation. The MediaPAC utility software will be installed as your option (recommended).

If your system fails to install through the auto-installation procedure, you can still install the S3 Trio3D/2X driver and MediaPAC by running the file D:\MSSETUP.EXE.



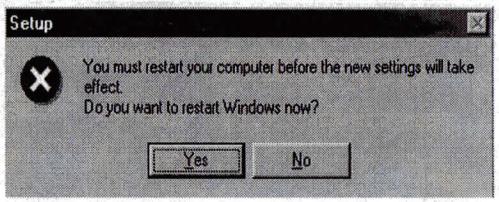
Please click "Driver for Windows 95/98", then follow the on-screen instructions to complete the installation.

Please follow the on-screen instructions to installation. The driver will auto detect chips type, and shown "S3 Inc. Trio3D 2X" in "Select Device" dialog box, then press "OK".

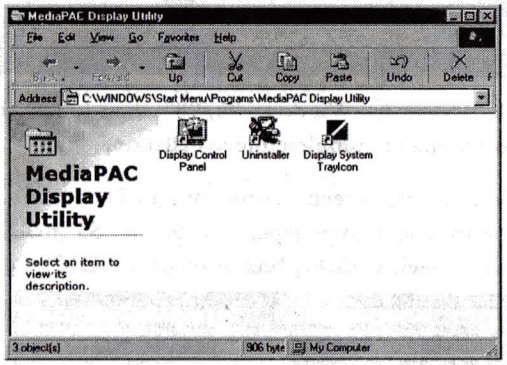


Please follow the on-screen instructions to complete the installation.

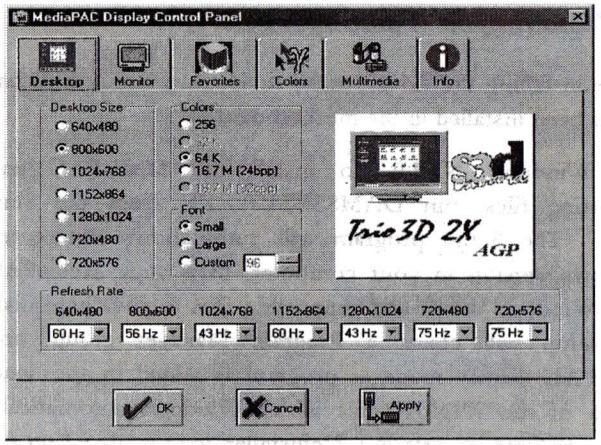
When you to complete the installation, "Setup" dialog box will be shown on screen, please press "Yes". Restart your computer.



When restart Windows "MediaPAC Display Utility" will be shown on screen.



To make sure if your installation is successful, you can click the "Display Control Panel" icon. Now it's possible to change your Desktop, Monitor, Favorites, Colors, Multimedia, and Info through this windows.



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MultiMedia

Multi-Media programs for video and audio playback.

Info

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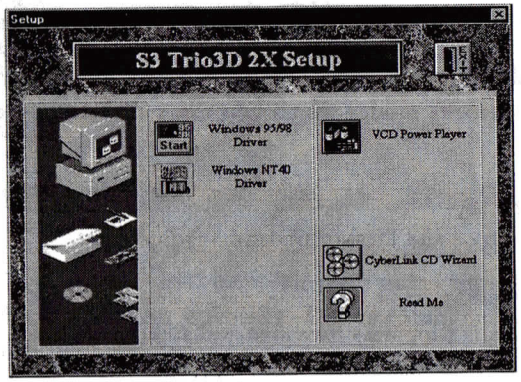
3.2 Installing on Windows NT4.0

Before installing the driver, make sure your graphic card has already been installed in the motherboard.

Start Windows NT4.0, to install the MediaPAC and supporting files, run D:\MSSETUP.EXE from the Start menu. The Setup program will automatically detect the Windows version in your computer, then copy MediaPAC tools, Windows driver and supporting files to your hard disk. The setup will create a Program Manager group, and MediaPAC display manager program is added to the 'load' section of the WIN.INI file which Windows automatically loads each time it starts. An 'Uninstaller' icon is placed on the program group for you to un-install this package as required. The MediaPAC Display Control Panel presents the information in a tabbed dialog box. Follow the instructions and make your choices, the installation is easily completed in just a minute.



Please click "Windows NT 4.0 Driver", then follow the on-screen instructions to complete the installation.

CDWIZARD

CD Key:MW784283D3981338

Chapter 1 Introduction

Thank you for using CDWizard! CDWizard is the world's most intelligent CD playback system which gives your computer the capability to automatically playback multimedia CD's of all kinds. It can play Video CD (VCD), Photo CD, Audio CD, and regular CD-ROM. With such a system, user only has to put in his/her multimedia CD in the CD-ROM drive, without the need to do anything, CDWizard will automatically detect the type of the CD, then bring up the corresponding player to playback the title with high quality video and audio. Therefore, CDWizard is a total solution to playback all kinds of CD!

Video CD is a type of CD which can playback graceful video and audio at the same time. VCD has three kinds of format, namely VCD1.0, VCD1.1 and VCD2.0. Among which, VCD2.0 provides the interactive capability to users such that users can interact with the title, to decide the sequence of playing back the title. Since the user can interact with the title, it provides the greatest education or entertainment effect. Currently, VCD2.0 has become the most popular format for CD publications. Movies, karaoke, cartoon, and many edutainment titles are produced using VCD2.0 format.

The VCD Player of CDWizard is the world's first software player to pass the complete VCD2.0 test. (The test disk is jointly defined by JVC, Matsushita, Philips, and SONY.) Moreover, the VCD Player supports all kinds of video and audio formats in the market. Hence, without the need of expensive hardware, VCD Player of CDWizard provides users with the best video quality.

Photo CD is a kind of CD which contains photos. Since it can store and playback pictures at high resolution, it is very appropriate for demonstrating pretty pictures. The functions provided by the Photo CD Player of CDWizard includes (1) fluent slide show with background music, (2) zoom-in and zoom-out, (3) print, and (4) save pictures as files.

Audio CD is the most popular kind of CD which can playback 44.1KHz stereo music. The Audio CD Player of CDWizard provides a complete set of functions for Audio CDs. These functions include (1) choosing and playing back a song at wish without sequentially playing the songs one by one, (2) to program the sequence of songs to playback, (3) to playback songs at random sequence, and (4) to control the volume through mixer. All the above functions are provides in an easy-to-use manner.

For a computer user, he/she may have some CD-ROM, which stores files, other than the above multimedia CDs. Moreover, there are some game titles, CAI titles, and karaoke titles are produced in the format of CD-ROM. Hence, when CDWizard detects that the CD in the CD-ROM drive is a CD-ROM, it will bring up "Explorer" of Windows 95 to show all folders and files in the CD-ROM, such that users can further operate on the CD-ROM based on his/her needs.

All in all, CDWizard provides the best playback quality to all multimedia CDs including all of VCD, Photo CD, Audio CD and CD-ROM. Since it is very easy to use with powerful functions, CDWizard provides users with a great fun of entertainment.

Chapter 2 System Requirements and Installation

2.1 Hardware Requirements

- Pentium-100 (or 6x86 P100) PC or higher
- 8 or 16 bit sound card
- 4X CD-ROM drive
- VGA board with DirectDraw support
- 8MB(16MB recommended) DRAM memory
- Speakers

2.2 Software Requirement

- Windows 95

2.3 System Installation

1. Start Windows 95,
2. Insert CDWizard CD into the CD-ROM drive (eg., drive D:\),
3. Click "Start" button, choose the "RUN..." command,
4. In the Command Line box, type "D:\CDWIZARD\SETUP.EXE" and press enter,
5. Follow the on-screen instructions to complete the installation.

Chapter 3 Running And Using CDWizard

3.1 Running CDWizard

After the installation of CDWizard,

1. Click "Start" button, choose the "Program" commend,
2. Choose "CDWizard",
3. Choose "CDWizard" again

Then CDWizard is up and running. If there is already a CD in the CD-ROM drive, CDWizard will automatically detect its type then playback the title. If there is no CD in the CD-ROM drive, you will see the logo of CDWizard on the display for one second, then the logo will disappear. This means CDWizard is already running in the background; it will run up for execution whenever you put in the CD in the CD-ROM afterward.

Moreover, after you installed CDWizard, your PC will automatically run CDWizard in the background whenever you power on your system. Hence, it will play your CD for you whenever you put one multimedia CD in your CD-ROM drive.

3.2 Using CDWizard

It is very easy to use CDWizard to playback your CD titles. You only have to start up the system, then it will automatically detect and playback the title for you whenever you put your CD in the CD-ROM drive. For the use of different players

for Video CD, Photo CD, Audio CD, and CD-ROM, please refer to following Chapters.

VCD PowerPlay

Chapter 1 PowerPlayer Installation

The PowerPlayer is powerful CD player application, it support Photo CD, Music CD, VCD, and I-CD. You can take the advantage this application to get high quality Music and Video.

1.1 Software Requirements

- Microsoft Windows 95
- VGA Card driver

1.2 Hardware Requirements

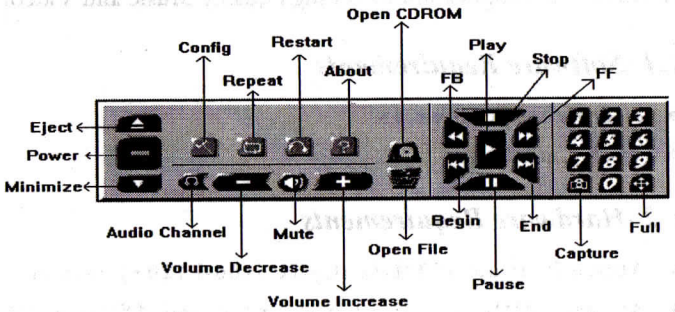
- Above Pentium 133MHz (Cyrix 6x86-P120+) system
- At least 2MB free Hard disk space and 4XCD-ROM Drive
- Sound card
- 8MB RAM

1.3 PowerPlayer VCD Installation

1. Start Windows 95
2. Put the VCD PowerPlayer CD into the CD-ROM drive
3. Choice <Start> <Run> Command
4. In the Run Command line, Key in "D:\Mplay\SETUP.EXE" and press the <O.K>. (The D: means CD-ROM Drive)

5. Follow the VCD PowerPlayer setup step and complete the process.
6. Please click the following setup screen on your system.

The control panel of the software MPEG Player is shown in the following diagram:



The some important buttons which deserve greater detail are as follows:

- **Config:** Set up the device options.
- **Repeat:** Repeat the playback continuously.
- **Restart:** Resume the playback from the beginning
- **Number:** Choose a particular track.
- **Capture:** Clicking on this icon will capture the image on the video screen into the Clipboard. To get the image, you can save it as a .BMP file or use the typical Windows cut/copy/paste features.
- **Full:** Switch the playback screen at 1x, Maximize, Full screen.
- **Audio Channel:** Select the left and/or right audio channel.

APPENDIX A RESOLUTION TABLE

Resolution Supported	Color Depth	Refresh Rate
640x480	256	-85Hz
	High	
	True	
720x480	High	75Hz
720x756	High	75Hz
800x600	256	56-85Hz
	High	
	True	
1024x768	256	43-85Hz
	High	
	True	
1152x864	256	60-85Hz
	High	
	True	
1280x1024	256	43-75Hz
	High	
	True	
1600x1200	256	43-60Hz
	High	

*Other brands and names are property of their respective owner.

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